
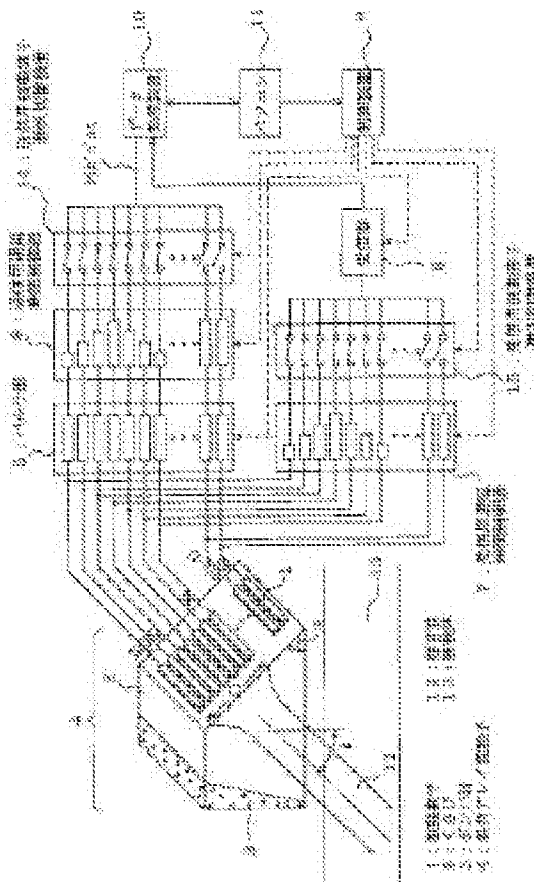


**METHOD AND APPARATUS FOR ULTRASONICALLY DETECTING FLAW****Publication number:** JP2001108661 (A)**Publication date:** 2001-04-20**Inventor(s):** AMANO TETSUYA; YAMADA KOJI**Applicant(s):** NIPPON KOKAN KK**Classification:****- international:** **G01N29/04; G01N29/24; G01N29/04; G01N29/24;** (IPC1-7): G01N29/10**- European:****Application number:** JP19990291793 19991014**Priority number(s):** JP19990291793 19991014**Also published as:** JP3606132 (B2)**Abstract of JP 2001108661 (A)**

**PROBLEM TO BE SOLVED:** To provide a method and an apparatus for ultrasonically detecting a flaw capable of detecting the flaw with sufficient sensitivity, detecting with a variable opening width in response to a status, scanning to detect the flaw by generating a small unnecessary echo. **SOLUTION:** The method for ultrasonically detecting a flaw comprises the steps of arranging a plurality (n) of vibrating elements 1 in an array state on an oblique surface of an oblique flaw detecting wedge 2, selecting a plurality (m) of the elements ( $n > m$ ) of a continued array of the plurality (n) of the elements, setting an opening width D of the element decided according to a total sum of the widths and the interval of the plurality (m) of the elements in the wedge oblique direction if a ultrasonic wave is transmitted and received by the selected plurality (m) of the elements so as to satisfy the formula A, and controlling a combining timing of received signals by an exciting timing controlling and receiving delay time controller of a pulser group 5 by a transmitting delay time controller 6 when transmitted and received by the plurality (m) of the elements (9 to 11, 14, 15).



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